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(54) METHOD FOR SYNTHESIZING LITHIUM-ION-CONDUCTIVE SOLID ELECTROLYTE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for synthesizing a solid electrolyte excellent in lithium ion conductivity under lower temperature conditions than for sulfide type lithium ion conductive solid electrolyte glass which is usually synthesized by melting of its raw material powders at temperature as high as 850° C or more and by subsequent quenching of its molten liquid to the softening temperature of the glass or below.

SOLUTION: A mixture of a lithium sulfide, other sulfide, and a lithium compound is reacted at temperatures not less than 150° C and not more than 300° C to manufacture a solid electrolyte excellent in lithium ion conductivity. During its manufacture, silicon sulfide is desirably used as the other sulfide. Further, a powder mixture with an average particle size of 10 μ m or less is more advantageously used.

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